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D. S. Batory, T. Y. Leung, T. E. Wise

September 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 3

Full text available: pdf(2.46 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Future database systems must feature extensible data models and data languages in order to accommodate the novel data types and special-purpose operations that are required by nontraditional database applications. In this paper, we outline a functional data model and data language that are targeted for the semantic interface of GENESIS, an extensible DBMS. The model and language are generalizations of FQL [11] and DAPLEX [40], and have an implementation that fits ideally with the modularity ...

2 Querying web metadata: Native score management and text support in databases

Gültekin Özsoy , Ismail Sengör Altıngövde, Abdullah Al-Hamdani, Selma Ayşe Özel, Özgür Ulusoy, Zehra Meral özsoy

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Full text available: pdf(737.76 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this article, we discuss the issues involved in adding a native score management system to object-relational databases, to be used in querying Web metadata (that describes the semantic content of Web resources). The Web metadata model is based on topics (representing entities), relationships among topics (called *metalinks*), and importance scores (sideway values) of topics and metalinks. We extend database relations with scoring functions and importance scores. We add to SQL score-manag ...

Keywords: Score management for Web applications**3 Authentication and signature schemes: Origin authentication in interdomain routing**

William Aiello, John Ioannidis, Patrick McDaniel

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Full text available: pdf(268.26 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Attacks against Internet routing are increasing in number and severity. Contributing greatly to these attacks is the absence of *origin authentication*: there is no way to validate claims of address ownership or location. The lack of such services enables not only attacks by malicious entities, but indirectly allow seemingly inconsequential misconfigurations to disrupt

large portions of the Internet. This paper considers the semantics, design, and costs of origin authentication in interdomai ...


Keywords: BGP, address management, delegation, routing, security

4 Posters: Searching databases for sematically-related schemas



Gauri Shah, Tanveer Syeda-Mahmood

July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**

Full text available:  [pdf\(494.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we address the problem of searching schema databases for semantically-related schemas. We first give a method of finding semantic similarity between pair-wise schemas based on tokenization, part-of-speech tagging, word expansion, and ontology matching. We then address the problem of indexing the schema database through a semantic hash table. Matching schemas in the database are found by hashing the query attributes and recording peaks in the histogram of schema hits. Results indic ...

Results 1 - 4 of 4

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